N2 A2 9Q12P

## PROJECT REPORT

QUARTERMASTER FOOD AND CONTAINER INSTITUTE FOR THE ARMED FORCES CHICAGO ILLINOIS MILITARY PLANNING DIVISION
OFFICE OF THE

(DOCHMENT STOTION

	QUARTERBABTER GENERAL		
University of California	DEPARTMENDIVISION of Physiology  COLLABORATO.RSChernick		
DIVISIONMedical School			
official investigator  S. Lepkovsky			
REPORT NO. 5	FILE NO. P-1012 W11-90092461-70208		
FOR PERIOD COVERING 47 - Jan. 1948	INITIATION ONIETY 1946		
	REPORT [ ] ANNUAL REPORT [ ]TERMINATION REPORT		

9/2/2

## SUMMARY

In earlier reports it was shown that the pancreas of chicks fed raw soy bean diets are larger than those of chicks fed diets containing cooked soy beans or stock diets. These results were obtained on birds fed the soy bean diets for 2 or 3 weeks. The time of onset of the changes in the pancreas have now been determined. Within 5 days a raw soy bean diet will induce an increase in the size of the pancreas of young chicks. A summary of the data follows:

	Y		3	4	
Age of chicks at sacrifice	Days on raw soy bean diets	Humber of chicks	Chick weight (average)	Pancreas weight (average)	Pancreas per cent chick weight
days	1,000		gm.	gm.	gm.
1 13*	1	5	68	0.44	0.65
14*	2	4	69	0.50	0.73
15*	3	5	70	0.56	0.80
16*	4	5	72	0.72	1.00
16**	0	10	101	0.66	0.66

<sup>\*</sup> Fed stock diet for first 12 days after hatching, then placed on raw soy bean diet containing 25 per cent protein.

SEP 26 1950

LIBRARY

P-1012 #5

<sup>\*\*</sup> Fed stock diet only.